

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1 11

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 05/22/2014		2. CONTRACT NO. (If any) EP-W-10-054		6. SHIP TO: a. NAME OF CONSIGNEE HPOD RRB	
3. ORDER NO. 0072		4. REQUISITION/REFERENCE NO. PR-OSWER-14-00137			
5. ISSUING OFFICE (Address correspondence to) SRRPOD US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460				b. STREET ADDRESS US Environmental Protection Agency USEPA Ronald Reagan Building (RRB) 1300 Pennsylvania Avenue NW	
				c. CITY Washington	d. STATE dc
				e. ZIP CODE 20004	
7. TO: a. NAME OF CONTRACTOR ABT ASSOCIATES INC				f. SHIP VIA	
b. COMPANY NAME				8. TYPE OF ORDER	
c. STREET ADDRESS 4550 MONTGOMERY AVENUE SUITE 800 NORTH				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY BETHESDA		e. STATE MD	f. ZIP CODE 208143343		
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE ORCR	
11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					12. F.O.B. POINT Destination
13. PLACE OF a. INSPECTION Destination		b. ACCEPTANCE Destination		14. GOVERNMENT B/L NO.	
				15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	
				16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 058595539 Recycling Economic Impact (REI) Metrics The terms and conditions of contract EP-W-10-054 are hereby incorporated by reference. Continued ...					
18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
21. MAIL INVOICE TO:						
a. NAME RTP Finance Center						\$148,413.02
b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center Mail Drop D143-02 109 TW Alexander Drive						\$148,413.02
c. CITY Durham						
d. STATE NC						17(i) GRAND TOTAL
e. ZIP CODE 27711						

22. UNITED STATES OF AMERICA BY (Signature)

05/22/2014



ELECTRONIC SIGNATURE

23. NAME (Typed)

Carolyn Mosinski
TITLE: CONTRACTING/ORDERING OFFICER

**ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION**

PAGE NO

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER
05/22/2014

CONTRACT NO.
EP-W-10-054

ORDER NO.
0072

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>The Contractor shall perform services in accordance with the attached revised statement of work (SOW) dated March 28, 2014 (10 pages) and the Contractor's proposal dated April 15, 2014, in the amount of \$148,413.02.</p> <p>The task order funding amount is established at \$148,413.02, which the Contractor is not authorized to exceed. Any expenditure above this amount is at the Contractor's own risk. This task order is hereby fully funded.</p> <p>Services rendered under this task order are for non-severable services. This is a firm fixed price task order.</p> <p>-----</p> <p>EPA-H-42-102--UTILIZATION OF FEDCONNECT FOR CONTRACT ADMINISTRATION (FEB 2014)</p> <p>EPA will utilize the FedConnect web portal in administering this task order. The contractor must be registered in FedConnect and have access to the FedConnect website located at https://www.fedconnect.net/Fedconnect/.</p> <p>TOPO: Kent Foerster Max Expire Date: 04/30/2015</p> <p>Admin Office: SRRPOD US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460</p> <p>Period of Performance: 05/19/2014 to 04/30/2015</p> <p>Recycling Economic Impact (REI) Metrics</p> <p>Accounting Info: 14-15-B-31M-302DA1-2585-1431MRP008-001 BFY: 14 EFY: 15 Fund: B Budget Org: 31M Program (PRC): 302DA1 Budget (BOC): 2585 DCN - Line ID: Continued ...</p>				148,413.02	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$148,413.02

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION NOT USABLE

OPTIONAL FORM 348 (Rev. 4/2008)

Prescribed by GSA FAR (48 CFR) 53.213(f)

**ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION**

PAGE NO

3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER
05/22/2014

CONTRACT NO.
EP-W-10-054

ORDER NO.
0072

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	1431MRP008-001 Funding Flag: Partial Funded: \$148,413.02 The obligated amount of award: \$148,413.02. The total for this award is shown in box 17(i).					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$0.00

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION NOT USABLE

OPTIONAL FORM 348 (Rev. 4/2006)

Prescribed by GSA FAR (48 CFR) 53.213(f)

**Recycling Economic Impact Metrics
Statement of Work
March 28, 2014**

Part 1- General Information

BACKGROUND— Recycling Economic Impact Metrics

The US Environmental Protection Agency (EPA) through a cooperative agreement with the National Recycling Coalition (NRC), 16 states and the Northeast Recycling Council (NERC) did the seminal work demonstrating the importance of recycling and reuse to the US economy in the 1990's. This initial US Recycling Economic Information Project (REI) is the foundation of numerous states' and regions' efforts to create updated and more localized studies on the impact of recycling. Various trade associations, states, local governments and nongovernment organizations (NGOs) have also explored the direct economic impacts, indirect and induced economic benefits and federal, state, and local tax revenue generated by recycling and reuse. Several states updated the original REI methodology to characterize a more precise view of the economic impacts.

Others states, like California and Oregon and the U.S. Department of Labor have taken a broader sustainability, sustainable materials management and green jobs point of view. A partial listing of some of these state, regional and other trade/NGO job studies are found in Part 3- Other Information. Some states also developed recycling market development directories to connect industries seeking to use recycled materials and to encourage demand for such products. These directories vary dramatically in breadth, visibility and how up to date they are especially in the context of all of the state and local budget cuts over the last decade. So while the need for accurate and useful data grows the capabilities and access to such tools have been restrained.

During the same timeframe of the initial REI effort, EPA supported the development of case studies and The Institute for Local Self Reliance (ISLR) developed a generic job per 10,000 tons per year for selected reuse and recycling operations. (See Part 3.) These remain the best but very dated comparison information available. The Container Recycling Institute and Tennessee have also developed job creation and economic impact analysis and Missouri did a Recycling Grant Return on Investment (ROI) calculation. In 2006, a South Carolina study conservatively estimated 1.68 jobs per 1,000 tons of MSW recycled. In Missouri, studies on the impact of grant programs showed that recycling and reuse industries are pure job creators and provide a greater return on investment for recycling market development than conventional economic development investments. EPA is seeking comparable and more up to date job creation, market development investment and per capita metrics for national, regional and state application.

This effort is part of a broad range of efforts to deal with the national recycling rate growing slowly over the last decade and facilitating the transition from waste management to sustainable materials management which is over a decade old, but only beginning to get traction. EPA convened a National Dialogue on Sustainable Financing of Recycling: Consumer Packaging in 2010-2011 that looked at optimization of existing components of the recycling system; identification of mechanisms to address shortfalls in the current recycling system (including the need for long-term financing and opportunities for fully utilizing the existing value chain) and maximization of the source reduction, collection, reuse, and recycling of packaging and printed materials. Out of this effort, a trade association called AMERIPEN continued the research by completing a 100 cities study assessment of the materials management infrastructure in the United States. The assessment included a web-based knowledge map. Other optimization assessments are underway to build better data collection and metrics.

The updated REI methodology and report combined with new metrics will be added to the tool kit for helping local, state and regional planners, waste, material and sustainability managers and policy makers assess appropriate investments in infrastructure and policy development.

PURPOSE AND OBJECTIVES

The purpose is to create new updated national recycling and reuse job statistics and metrics.

The objectives are to:

1. Update the original Recycling Economic Impact (REI) study methodology incorporating and aggregating the best of other national, state and regional studies with clear definitions and using market based terminology, categories and nomenclature;
2. Create a transparent, replicable, scalable, verifiable, updatable methodology to generate future updates of the REI report with national job creation statistics for recycling and reuse;
3. Generate a new REI Report;
4. Update generic job per 10,000 tons per year for selected reuse and recycling operations and like the South Carolina effort, create generic recycling and reuse metrics of job creation for cities and states to use as a guide for Recycling Economic Impact estimation. Investigate possible return on investment (ROI) in recycling market development projects metrics.

Part 2- SCOPE OF WORK

The work to be completed and the schedule of deliverables are included in the tasks and subtasks detailed below.

TASK 1A. UPDATE ORIGINAL REI STUDY METHODOLOGY (Task Area 1, 6 and 7 of Base Contract SOW)

Based upon existing public data, case studies and research and readily available methodologies, the contractor shall develop an updated national REI study methodology. The methodology shall be as transparent, replicable, verifiable, and updatable, as practicable. The methodology must include the direct economic impacts, indirect and induced economic benefits and federal, state, and local tax revenue generated by recycling, remanufacturing and reuse. This should include the entire value chain of collection, sorting and processing in addition to end users. Categorization of the supply and demand sectors needs to be clearly identified between the recycling industries, recycling reliant industries and reuse and remanufacturing industries. There should be clear definitions primarily from the state data measurement sharing program and the use of existing trade commerce terminology for each commodity and packaging sectors (within paper, plastics, glass, ferrous and non-ferrous, aseptic packaging, etc.) The methodology should reflect and be applicable to present and adaptable to future market scenarios.

Direct economic impacts include the collection and processing involving municipal and private collectors, transfer stations and hauling, public curbside collection, material recovery facilities, redemption centers and retailers, composting and other organic processing facilities and recyclable material wholesalers; recycling manufacturing including glass and steel mills, converters, reclaimers and manufacturers, paper and paperboard mills, and nonferrous metal manufacturers, pavement mix producers, rubber product manufacturers; reuse and remanufacturing and repair of products. Indirect impacts include service based business like recycling and reuse equipment manufacturers, consultants and engineers, brokers, transporters, accounting firms and office supply companies. Please note any additional direct or indirect activities that should be considered and cost them out separately.

Methodology should show gross activities and true net impact so economic losses that result from recycling and reuse (like collection and landfilling) are addressed. The methodology should also take into consideration future opportunities to incorporate data collected in the state data measurement sharing program template that has been developed by the states with EPA support. (A copy of the first national 2012 State Data Measurement Sharing Program (SDMSP) template is included in this package.) The SDMSP had twenty states participate in the first year roll out with data availability ranging from comprehensive numbers for various solid waste and recycling categories to very limited data on solid waste disposal. Several other states have already signed up to participate and more expected as the project moves forward. A spreadsheet of the data provided will be provided after QA and QC is completed in April. This methodology will be used primarily by EPA and will be national in its focus with the

capability to be broadened to state and regional levels at a later date. EPA intends to make the methodology and the data as transparent as possible and will need the ability to have access and use the methodology and data at the conclusion of the contract. EPA will require that the standard federal CBI requirements be maintained as needed with sufficient aggregation to protect proprietary data sources. EPA will take the necessary steps of posting a Federal Register Notice to authorize the contractor to have access to any CBI related data.

Expect to use publically available data or data and information already privately collected by other third parties that can be procured and contractors already have access to or used before. No Information Collection Request (ICR) is planned. The cap of 9 individuals for the same question will be required.

The scope is to use data sources from existing studies in combination with other available data and create an updated and improved national recycling economic impact methodology. EPA will consider all suggestions regarding methodology improvements and the tools used to create it. Initial recommendations made by ERG are posted on EPA's Recycling Market Development website: <http://www.epa.gov/wastes/conserve/tools/rmd/rei-rw/index.htm>. While EPA prefers a more complex and vibrant model like REMI, any input/output modeling or other approach that facilitate transparency and clearly understood data and methodology will be considered. Open sourced non-proprietary approaches are encouraged.

DELIVERABLES	DUE DATES
Initial Meeting	Within 10 calendar days of contract execution
Draft methodology and preliminary recommendations	Within 60 calendar days of initial meeting
	EPA has up to 30 calendar days for each review
Final methodology and recommendations	Within 15 calendar days after ORCR comments on draft methodology and recommendations
Transfer all original data and reference materials collected during the task	Within 10 calendar days after the completion of all three tasks.

TASK 2. GENERATE THE NEW REI REPORT (Task Area 7 of Base Contract SOW)

Taking the methodology developed and approved in task 1, the contractor shall generate a new REI Report. The report will provide the national recycling economic impact including jobs, taxes, total income and direct economic impacts, indirect and induced economic benefits and federal, state, and local tax revenue generated by recycling and reuse. It will also include landfill cost avoidance and projections of economic impacts for improving recycling rates from present national recycling rates (see most recent MSW Report) to 50% and 75% national recycling rates. Another way of looking at the latter would be to calculate "potential" of material not being

collected or disposed. (A copy of the working papers of the MSW Report have been provided.)

The report will include colorful and easy to read charts, graphs and include summary infographics comparable to the MSW Characterization report infographics that can be used for conventional and social media outlets in sharing the story. The report should include an executive summary of 12 to 15 pages, introduction, data characterization, study methodology, study results, identification of data gaps, and opportunities for improvement and recommendations for future efforts. The original report was 158 pages with several dozen tables and over a dozen figures, expect similar quantities if not more since this needs to be as transparent as practical. Design and plan for the report to be primarily shown on the EPA website, so it must be 508 compliant and in PDF format. Plan on one major infographic, a separate PDF of the executive summary and the full report. Seeking creative and different approaches to sharing the results, for example using the Edward Tufte model of visual representation.

There will be one full review of each written draft deliverable and at least two minor edits.

DELIVERABLES	DUE DATES
Draft REI Report	Within 90 calendar days of EPA approval of the methodology
	EPA has up to 30 calendar days for review
REI Report	Within 15 calendar days of Draft approval
Transfer all original data and reference materials collected during the project	Within 10 calendar days after the completion of all three tasks.

TASK 3. GENERATE NEW USABLE JOB CREATION METRICS FOR STATE AND LOCAL USE--(Task Area 7 of Base Contract SOW)

The contractor shall update and expand the job creation metrics for various commodities of recyclables and reuse industries. The contractor shall develop comparable jobs per 1,000 tons of MSW recycled metrics like the South Carolina example. If practical, seek out other examples and assess appropriate ranges based upon demographics for states and localities to use to assess the economic impacts in their own jurisdictions.

The contractor shall provide a complete report on data used, assumptions made and methodology adopted to create the recycling and reuse metrics for state and local governments. If possible, the metrics need to address waste characterization categories by material, container and packaging, durables and non-durables as found in the state data measurement sharing template or developed in the MSW Characterization Report. However, whenever there is a market based definition and category that can provide better more accurate information please provide that alternative. The metrics also need to take into account changing waste streams like the decline in fiber, growth in plastic and aseptic

packaging and changes in electronics. Recommendations on how to continually update and improve these metrics through additional case studies, research and development should be included. Also include a review of availability of data, sources and key data or methodology and metrics gaps.

The scope is to update and improve the existing recycling metrics; provide at least one recycling and reuse metric for use at the local, state, regional and national level and provide recommendations for additional metrics and improvements. The jobs per 1,000 tons metric will be used in the State Measurement Data Sharing Program and as a generic rule of thumb in assessing recycling market development potential.

There will be one full review of each written draft deliverable and at least two minor edits.

DELIVERABLES	DUE DATES
Draft Report on REI metrics	Within 45 calendar days from EPA methodology approval or mutually agreed time after initial meeting
	EPA has up to 30 calendar days for review
Final Report on REI metrics	Within 15 calendar days of Draft approval
Transfer all original data and reference materials collected during the project	Within 10 calendar days after completion of task 3.

Part 3- Other information

Communications

Contractor should anticipate biweekly teleconferences as needed between deliverable times lasting an average of 30 to 45 minutes each.

Period of Performance

The Period of Performance for this Task Order shall conclude 12 months from contract award date.

Deliverables

Please provide all deliverables, source documentation and all supporting research and documentation of the methodology, report and recommendations electronically by email and one hard copy to the TOCOR and alternative TOCOR in Microsoft Office 2013 compatible products including (Word, Access, Excel, Publisher, and Power Point).

References

MSW Characterization Report

Partial list of selected economic impact studies

National Recycling Focus

US EPA, US Recycling Economic Information Project.

Tellus Institute with Sound Resource Management for Recycling Works!, More Jobs, Less Pollution: Growing the Recycling Economy in the U.S., 2011.

National with some State and Congressional Breakdown

Institute of Scrap Recyclers Industries, Inc. (ISRI), Economic Impact Study U.S.-Based Scrap Recycling Industry 2011. Updated in 2013.

Regional Recycling Focus

NERC NRC REI Report (1994 and 2000)

Northeast Recycling Council (NERC), Recycling Economic Information Study Update: Delaware, Maine, Massachusetts, New York, and Pennsylvania FINAL REPORT. February, 2009

Southeast Recycling Development Council (SERDC) lists of state economic impact related reports.

State Recycling Focus

Arizona (1996)

REI related California, Florida, Indiana, Nebraska, Ohio, Illinois, Minnesota, Wisconsin and Missouri (2000-2001)

California Integrated Waste Management Board (CIWMB) now CalRecycle, The Economic Impact of Waste Disposal and Diversion in California, 2001. (University of California, Berkeley, IMPLAN)

Connecticut Resources Recovery Authority, The Economic Impact on Connecticut from Recycling Activity, 2012. (Used IMPLAN.)

Illinois DCCA (2002)

Illinois Recycling Coalition and Illinois DCEO, 2010 Recycling Economic Information Study Update for Illinois. (DSM Environmental, whole model)

Indiana (2001)

EPW10054/0072

Indiana Recycling Coalition, The untapped job potential of Indiana's recycling industry, 2013. (Bowen Center for Public Affairs, Ball State University)

Iowa (1996, 2001)

Iowa Department of Natural Resources (Iowa DNR), Economic Impacts of Recycling in Iowa, 2007. (RW Beck, I/O used)

Massachusetts (2004)

Michigan (2001)

Missouri's Environmental Improvement and Energy Resources Authority (EI ERA), Missouri Recycling Economic Information Study MOREIS, 2003. (Institute of Public Policy, Truman School of Public Policy, University of Missouri – Columbia). Updated in 2006.

Missouri Organization of Recyclers (MORA) Recycling in Missouri: Expanding our economy Strengthening our communities Improving our environment A 2013 Progress Report, 2013.

Missouri grant impact ROI reference

Minnesota Office of Environmental Assistance, now Minnesota Pollution Control Agency (MPCA), Minnesota's Recycling Industries: Economic Activity Summary, 2002.

Montana DEQ (2004)

North Carolina (2008)

North Carolina Department of Environment and Natural Resources, Recycling Business Assistance Center (RBAC) Employment Trends in North Carolina's Recycling Industry, 2010.

North Carolina Department of Environment and Natural Resources, Recycling Business Assistance Center (RBAC) Employment Trends in North Carolina's Recycling Industry, 2013

Ohio Department of Natural Resources (Ohio DNR), Ohio Recycling Economic Information Study 2001. (RW Beck, NRC)

Pennsylvania (2007)

South Carolina Department of Health and Environmental Control and the S.C. Department of Commerce, The Economic Impact of the Recycling Industry in South Carolina, 2006. (College of Charleston, IMPLAN)

EPW10054/0072

Virginia Department of Environmental Quality (VA DEQ), The Economic Benefits of Recycling in Virginia, >2007. (Thomas Jefferson Program in Public Policy At the College of William and Mary)

Washington Survey of Washington State's Recycling Industry (1992 and updates)

Local Government

St. Louis - Jefferson Solid Waste Management District, St. Louis Metropolitan Area Recycling Economic Information Study (SLMAREIS) 2002. (College of Business Administration, University of Missouri - St. Louis and University of Missouri Outreach and Extension)

Seattle/King County

Broader Sustainability or "Green" Focus

State of California Employment Development Department, California's Green Economy, Summary of Survey Results, 2010.

Bureau of Labor Statistics Measuring Green Jobs

Recycling Job Metrics

Type of Operation	Jobs per 10,000 TPY
Product Reuse	
Computer Reuse	296
Textile Reclamation	85
Misc. Durables Reuse	62
Wooden Pallet Repair	28
Recycling-based Manufacturers	25
Paper Mills	18
Glass Product Manufacturers	26
Plastic Product Manufacturers	93
Conventional Materials Recovery Facilities	10
Composting	4
Landfill and Incineration	1

TPY = tons per year Note: Figures are based on interviews with select facilities around the country. Source: Institute for Local Self-Reliance, Washington, DC, 1997.

<http://www.ilsr.org/recycling-means-business/>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. 001		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. PR-SRRPOD-15-00024	
5. PROJECT NO. (If applicable)		6. ISSUED BY SRRPOD US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460		7. ADMINISTERED BY (If other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ABT ASSOCIATES INC. Attn: (b)(4) 4550 MONTGOMERY AVENUE SUITE 800 NORTH BETHESDA MD 208143343		(x)		9A. AMENDMENT OF SOLICITATION NO.	
CODE 058595539		FACILITY CODE		9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-10-054 0072	
				10B. DATED (SEE ITEM 13) 05/22/2014	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

Net Decrease:

-\$45,978.59

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.232-22 Limitation of Funds (APR 1984)
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 058595539

Recycling Economic Impact (REI) Metrics

TOPO: Kent Foerster Max Expire Date: 04/30/2015

The purpose of this bilateral modification is to:

- 1) Deobligate funds; and
- 2) Modify the total task order obligation/funding amount.

Funds in the amount of \$45,978.59 are hereby deobligated from line

14-15-B-31M-302DA1-2585-1431MRP008-001.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Carolyn Mosinski	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16C. DATE SIGNED 11/06/2014	16B. ELECTRONIC SIGNATURE <i>Carolyn W. Mosinski</i>

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-W-10-054/0072/001	PAGE	OF
		2	3

NAME OF OFFEROR OR CONTRACTOR
ABT ASSOCIATES INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>This modification is for the purpose of payment adjustment. Funding in the same amount deobligated on this modification will be reobligated with funding from Task Order 71 via DCN PDP020.</p> <p>The total task order funding amount is hereby reduced by \$45,978.59, from \$148,413.02 to \$102,434.43, which the Contractor is not authorized to exceed. The Contractor exceeds this amount at its own risk.</p> <p>All other terms and conditions remain unchanged.</p> <p>LIST OF CHANGES: Reason for Modification : Funding Only Action Total Amount for this Modification: -\$45,978.59 New Total Amount for this Version: \$102,434.43 New Total Amount for this Award: \$102,434.43 Obligated Amount for this Modification: -\$45,978.59 New Total Obligated Amount for this Award: \$102,434.43 Requisitioner changed from to Reconstruct User</p> <p>CHANGES FOR LINE ITEM NUMBER: 1 Total Amount changed from \$148,413.02 to \$102,434.43 Obligated Amount for this modification: -\$45,978.59</p> <p>CHANGES FOR DELIVERY LOCATION: HPOD RRB Amount changed from \$148,413.02 to \$102,434.43</p> <p>CHANGES FOR ACCOUNTING CODE: 14-15-B-31M-302DA1-2585-1431MRP008-001 Amount changed from \$148,413.02 to \$102,434.43</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center Mail Drop D143-02 109 TW Alexander Drive Durham NC 27711 FOB: Destination Continued ...</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. 002		3. EFFECTIVE DATE 11/07/2014		4. REQUISITION/PURCHASE REQ. NO. PR-SRRPOD-15-00039	
5. PROJECT NO. (If applicable)		6. ISSUED BY SRRPOD		7. ADMINISTERED BY (If other than Item 6)	
US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460		8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ABT ASSOCIATES INC. Attn: (b)(4) 4550 MONTGOMERY AVENUE SUITE 800 NORTH BETHESDA MD 208143343		9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-10-054 0072 10B. DATED (SEE ITEM 13) 05/22/2014	
CODE 058595539		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

Net Increase:

\$45,978.59

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) FAR 52.232-22 Limitation of Funds (APR 1984)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ 0 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 058595539

Recycling Economic Impact (REI) Metrics

TOPO: Kent Foerster Max Expire Date: 04/30/2015

The purpose of this modification is as follows:

- 1) To make an obligation for the purpose of payment adjustments;
- 2) To shift funds using DCN PDP020 from task order no. 71 (via modification 4) to this task order under contract number EP-W-10-054; and
- 3) To modify the total task order obligation amount.

This modification is administrative in nature, as it is to shift funds in the amount of Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Carolyn Mosinski	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. DATE SIGNED 11/07/2014	16C. DATE SIGNED 11/07/2014

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
EP-W-10-054/0072/002PAGE OF
2 3NAME OF OFFEROR OR CONTRACTOR
ABT ASSOCIATES INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>\$45,978.59 using DCN no. PDP020 from task order no. 71 to this task order in order to facilitate payment adjustments.</p> <p>Funds in the amount of \$45,978.59 are hereby obligated from line 13-14-B-31P-302DA1-2585-1331PDP020-001.</p> <p>The total task order funding amount is hereby increased by \$45,978.59, from \$102,434.43 to \$148,413.02, which the Contractor is not authorized to exceed. The Contractor exceeds this amount at its own risk.</p> <p>All other terms and conditions remain unchanged.</p> <p>LIST OF CHANGES: Reason for Modification : Funding Only Action Total Amount for this Modification: \$45,978.59 New Total Amount for this Version: \$148,413.02 New Total Amount for this Award: \$148,413.02 Obligated Amount for this Modification: \$45,978.59 New Total Obligated Amount for this Award: \$148,413.02 CHANGES FOR LINE ITEM NUMBER: 1 Total Amount changed from \$102,434.43 to \$148,413.02 Obligated Amount for this modification: \$45,978.59</p> <p>CHANGES FOR ACCOUNTING CODE: 14-15-B-31M-302DA1-2585-1431MRP008-001 Percent changed from 100 to 69.01984</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 13-14-B-31P-302DA1-2585-1331PDP020-001 Beginning FiscalYear 13 Ending Fiscal Year 14 Fund (Appropriation) B Budget Organization 31P Program (PRC) 302DA1 Budget (BOC) 2585 Job # (Site/Project) Cost Organization DCN-LineID 1331PDP020-001 Quantity: 0 Amount: \$45,978.59 Percent: 30.98016 Subject To Funding: N Payment Address: Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

EP-W-10-054/0072/002

PAGE

OF

3

3

NAME OF OFFEROR OR CONTRACTOR

ABT ASSOCIATES INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>FOB: Destination Period of Performance: 05/19/2014 to 04/30/2015</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 12	
2. AMENDMENT/MODIFICATION NO. 003		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		7. ADMINISTERED BY (If other than Item 6)		CODE	
6. ISSUED BY SRRPOD US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ABT ASSOCIATES INC. Attn: (b)(4) 4550 MONTGOMERY AVENUE SUITE 800 NORTH BETHESDA MD 208143343		(x)		9A. AMENDMENT OF SOLICITATION NO.	
CODE 058595539		FACILITY CODE		9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-10-054 0072	
				10B. DATED (SEE ITEM 13) 05/22/2014	

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See Schedule

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X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: by Mutual Agreement of the Parties
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not. ☒ is required to sign this document and return 1 copies to the issuing office.

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DUNS Number: 058595539

Recycling Economic Impact (REI) Metrics

TOCOR: Kent Foerster Max Expire Date: 06/30/2015

The purpose of this bilateral modification is to:

- 1) Incorporate the revised statement of work dated March 31, 2015 (10 pages); and
- 2) Extend the period of performance.

The period of performance end date for this task order is hereby extended to June 30, 2015. This extension is needed due to delays beyond the contractor's control. This extension is Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Carolyn Mosinski	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. DATE SIGNED 04/08/2015	16C. DATE SIGNED

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
EP-W-10-054/0072/003PAGE OF
2 12NAME OF OFFEROR OR CONTRACTOR
ABT ASSOCIATES INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	at no additional cost to the Government. All other terms and conditions remain unchanged. LIST OF CHANGES: Reason for Modification : Supplemental Agreement for work within scope Period Of Performance End Date changed from 2015-04-30 to 2015-06-30 Total Amount for this Modification: \$0.00 New Total Amount for this Version: \$0.00 New Total Amount for this Award: \$148,413.02 Maximum Potential Expiration Date changed to : 06/30/2015 Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center Mail Drop D143-02 109 TW Alexander Drive Durham NC 27711 Period of Performance: 05/19/2014 to 06/30/2015				

Recycling Economic Impact Metrics
Statement of Work
March 31, 2015

Part 1- General Information

BACKGROUND-- Recycling Economic Impact Metrics

The US Environmental Protection Agency (EPA) through a cooperative agreement with the National Recycling Coalition (NRC), 16 states and the Northeast Recycling Council (NERC) did the seminal work demonstrating the importance of recycling and reuse to the US economy in the 1990's. This initial US Recycling Economic Information Project (REI) is the foundation of numerous states' and regions' efforts to create updated and more localized studies on the impact of recycling. Various trade associations, states, local governments and nongovernment organizations (NGOs) have also explored the direct economic impacts, indirect and induced economic benefits and federal, state, and local tax revenue generated by recycling and reuse. Several states updated the original REI methodology to characterize a more precise view of the economic impacts.

Others states, like California and Oregon and the U.S. Department of Labor have taken a broader sustainability, sustainable materials management and green jobs point of view. A partial listing of some of these state, regional and other trade/NGO job studies are found in Part 3- Other Information. Some states also developed recycling market development directories to connect industries seeking to use recycled materials and to encourage demand for such products. These directories vary dramatically in breadth, visibility and how up to date they are especially in the context of all of the state and local budget cuts over the last decade. So while the need for accurate and useful data grows the capabilities and access to such tools have been restrained.

During the same timeframe of the initial REI effort, EPA supported the development of case studies and The Institute for Local Self Reliance (ISLR) developed a generic job per 10,000 tons per year for selected reuse and recycling operations. (See Part 3.) These remain the best but very dated comparison information available. The Container Recycling Institute and Tennessee have also developed job creation and economic impact analysis and Missouri did a Recycling Grant Return on Investment (ROI) calculation. In 2006, a South Carolina study conservatively estimated 1.68 jobs per 1,000 tons of MSW recycled. In Missouri, studies on the impact of grant programs showed that recycling and reuse industries are pure job creators and provide a greater return on investment for recycling market development than conventional economic development investments. EPA is seeking comparable and more up to date job creation, market development investment and per capita metrics for national, regional and state application.

This effort is part of a broad range of efforts to deal with the national recycling rate growing slowly over the last decade and facilitating the transition from waste management to sustainable materials management which is over a decade old, but only beginning to get traction. EPA convened a National Dialogue on Sustainable Financing of Recycling: Consumer Packaging in 2010-2011 that looked at optimization of existing components of the recycling system; identification of mechanisms to address shortfalls in the current recycling system (including the need for long-term financing and opportunities for fully utilizing the existing value chain) and maximization of the source reduction, collection, reuse, and recycling of packaging and printed materials. Out of this effort, a trade association called AMERIPEN continued the research by completing a 100 cities study assessment of the materials management infrastructure in the United States. The assessment included a web-based knowledge map. Other optimization assessments are underway to build better data collection and metrics.

The updated REI methodology and report combined with new metrics will be added to the tool kit for helping local, state and regional planners, waste, material and sustainability managers and policy makers assess appropriate investments in infrastructure and policy development.

PURPOSE AND OBJECTIVES

The purpose is to create new updated national recycling and reuse job statistics and metrics.

The objectives are to:

1. Update the original Recycling Economic Impact (REI) study methodology incorporating and aggregating the best of other national, state and regional studies with clear definitions and using market based terminology, categories and nomenclature;
2. Create a transparent, replicable, scalable, verifiable, updatable methodology to generate future updates of the REI report with national job creation statistics for recycling and reuse;
3. Generate a new REI Report;
4. Update generic job per 10,000 tons per year for selected reuse and recycling operations and like the South Carolina effort, create generic recycling and reuse metrics of job creation for cities and states to use as a guide for Recycling Economic Impact estimation. Investigate possible return on investment (ROI) in recycling market development projects metrics.

Part 2- SCOPE OF WORK

The work to be completed and the schedule of deliverables are included in the tasks and subtasks detailed below.

TASK 1A. UPDATE ORIGINAL REI STUDY METHODOLOGY (Task Area 1, 6 and 7 of Base Contract SOW)

Based upon existing public data, case studies and research and readily available methodologies, the contractor shall develop an updated national REI study methodology. The methodology shall be as transparent, replicable, verifiable, and updatable, as practicable. The methodology must include the direct economic impacts, indirect and induced economic benefits and federal, state, and local tax revenue generated by recycling, remanufacturing and reuse. This should include the entire value chain of collection, sorting and processing in addition to end users. Categorization of the supply and demand sectors needs to be clearly identified between the recycling industries, recycling reliant industries and reuse and remanufacturing industries. There should be clear definitions primarily from the state data measurement sharing program and the use of existing trade commerce terminology for each commodity and packaging sectors (within paper, plastics, glass, ferrous and non-ferrous, aseptic packaging, etc.) The methodology should reflect and be applicable to present and adaptable to future market scenarios.

Direct economic impacts include the collection and processing involving municipal and private collectors, transfer stations and hauling, public curbside collection, material recovery facilities, redemption centers and retailers, composting and other organic processing facilities and recyclable material wholesalers; recycling manufacturing including glass and steel mills, converters, reclaimers and manufacturers, paper and paperboard mills, and nonferrous metal manufacturers, pavement mix producers, rubber product manufacturers; reuse and remanufacturing and repair of products. Indirect impacts include service based business like recycling and reuse equipment manufacturers, consultants and engineers, brokers, transporters, accounting firms and office supply companies. Please note any additional direct or indirect activities that should be considered and cost them out separately.

Methodology should show gross activities and true net impact so economic losses that result from recycling and reuse (like collection and landfilling) are addressed. The methodology should also take into consideration future opportunities to incorporate data collected in the state data measurement sharing program template that has been developed by the states with EPA support. (A copy of the first national 2012 State Data Measurement Sharing Program (SDMSP) template is included in this package.) The SDMSP had twenty states participate in the first year roll out with data availability ranging from comprehensive numbers for various solid waste and recycling categories to very limited data on solid waste disposal. Several other states have already signed up to participate and more expected as the project moves forward. A spreadsheet of the data provided will be provided after QA and QC is completed in April.

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This methodology will be used primarily by EPA and will be national in its focus with the capability to be broadened to state and regional levels at a later date. EPA intends to make the methodology and the data as transparent as possible and will need the ability to have access and use the methodology and data at the conclusion of the contract. EPA will require that the standard federal CBI requirements be maintained as needed with sufficient aggregation to protect proprietary data sources. EPA will take the necessary steps of posting a Federal Register Notice to authorize the contractor to have access to any CBI related data.

Expect to use publically available data or data and information already privately collected by other third parties that can be procured and contractors already have access to or used before. No Information Collection Request (ICR) is planned. The cap of 9 individuals for the same question will be required.

The scope is to use data sources from existing studies in combination with other available data and create an updated and improved national recycling economic impact methodology. EPA will consider all suggestions regarding methodology improvements and the tools used to create it. Initial recommendations made by ERG are posted on EPA's Recycling Market Development website: <http://www.epa.gov/wastes/conserve/tools/rmd/rei-rw/index.htm>. While EPA prefers a more complex and vibrant model like REMI, any input/output modeling or other approach that facilitate transparency and clearly understood data and methodology will be considered. Open sourced non-proprietary approaches are encouraged.

DELIVERABLES	DUE DATES
Initial Meeting	Within 10 calendar days of contract execution
Draft methodology and preliminary recommendations	Within 60 calendar days of initial meeting
	EPA has up to 30 calendar days for each review
Final methodology and recommendations	Within 15 calendar days after ORCR comments on draft methodology and recommendations
Transfer all original data and reference materials collected during the task	Within 10 calendar days after the completion of all three tasks.

TASK 2. GENERATE THE NEW REI REPORT (Task Area 7 of Base Contract SOW)

Taking the methodology developed and approved in task 1, the contractor shall generate a new REI Report. The report will provide the national recycling economic impact including jobs, taxes, total income and direct economic impacts, indirect and induced economic benefits and federal, state, and local tax revenue generated by recycling and reuse. It will also include landfill cost avoidance and projections of economic impacts for improving recycling rates from present national recycling rates (see most recent MSW Report) to 50% and 75% national recycling rates.

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Another way of looking at the latter would be to calculate "potential" of material not being collected or disposed. (A copy of the working papers of the MSW Report have been provided.)

The report will include colorful and easy to read charts, graphs and include summary infographics comparable to the MSW Characterization report infographics that can be used for conventional and social media outlets in sharing the story. The report should include an executive summary of 12 to 15 pages, introduction, data characterization, study methodology, study results, identification of data gaps, and opportunities for improvement and recommendations for future efforts. The original report was 158 pages with several dozen tables and over a dozen figures, expect similar quantities if not more since this needs to be as transparent as practical. Design and plan for the report to be primarily shown on the EPA website, so it must be 508 compliant and in PDF format. Plan on one major infographic, a separate PDF of the executive summary and the full report. Seeking creative and different approaches to sharing the results, for example using the Edward Tufte model of visual representation.

There will be one full review of each written draft deliverable and at least two minor edits.

March 31, 2015 Revision: Draft due April 13, 2015.

DELIVERABLES	DUE DATES
Draft REI Report	Within 90 calendar days of EPA approval of the methodology
	EPA has up to 30 calendar days for review
REI Report	Within 15 calendar days of Draft approval
Transfer all original data and reference materials collected during the project	Within 10 calendar days after the completion of all three tasks.

TASK 3. GENERATE NEW USABLE JOB CREATION METRICS FOR STATE AND LOCAL USE--(Task Area 7 of Base Contract SOW)

The contractor shall update and expand the job creation metrics for various commodities of recyclables and reuse industries. The contractor shall develop comparable jobs per 1,000 tons of MSW recycled metrics like the South Carolina example. If practical, seek out other examples and assess appropriate ranges based upon demographics for states and localities to use to assess the economic impacts in their own jurisdictions.

The contractor shall provide a complete report on data used, assumptions made and methodology adopted to create the recycling and reuse metrics for state and local governments. If possible, the metrics need to address waste characterization categories by material, container and packaging, durables and non-durables as found in the state data measurement sharing template or developed in the MSW Characterization Report. However, whenever there is a market based definition and category that can provide better more accurate information please provide that alternative. The metrics also need to take into

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account changing waste streams like the decline in fiber, growth in plastic and aseptic packaging and changes in electronics. Recommendations on how to continually update and improve these metrics through additional case studies, research and development should be included. Also include a review of availability of data, sources and key data or methodology and metrics gaps.

The scope is to update and improve the existing recycling metrics; provide at least one recycling and reuse metric for use at the local, state, regional and national level and provide recommendations for additional metrics and improvements. The jobs per 1,000 tons metric will be used in the State Measurement Data Sharing Program and as a generic rule of thumb in assessing recycling market development potential.

There will be one full review of each written draft deliverable and at least two minor edits.

March 31, 2015 Revision: Draft due April 13, 2015.

DELIVERABLES	DUE DATES
Draft Report on REI metrics	Within 45 calendar days from EPA methodology approval or mutually agreed time after initial meeting
	EPA has up to 30 calendar days for review
Final Report on REI metrics	Within 15 calendar days of Draft approval
Transfer all original data and reference materials collected during the project	Within 10 calendar days after completion of task 3.

Part 3- Other information

Communications

Contractor should anticipate biweekly teleconferences as needed between deliverable times lasting an average of 30 to 45 minutes each.

Period of Performance

The Period of Performance for this Task Order shall conclude 12 months from contract award date.

Deliverables

Please provide all deliverables, source documentation and all supporting research and documentation of the methodology, report and recommendations electronically by email and one hard copy to the TOCOR and alternative TOCOR in Microsoft Office 2013 compatible

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products including (Word, Access, Excel, Publisher, and Power Point).

References

MSW Characterization Report

Partial list of selected economic impact studies

National Recycling Focus

US EPA, US Recycling Economic Information Project.

Tellus Institute with Sound Resource Management for Recycling Works!, More Jobs, Less Pollution: Growing the Recycling Economy in the U.S., 2011.

National with some State and Congressional Breakdown

Institute of Scrap Recyclers Industries, Inc. (ISRI), Economic Impact Study U.S.-Based Scrap Recycling Industry 2011. Updated in 2013.

Regional Recycling Focus

NERC NRC REI Report (1994 and 2000)

Northeast Recycling Council (NERC), Recycling Economic Information Study Update: Delaware, Maine, Massachusetts, New York, and Pennsylvania FINAL REPORT. February, 2009

Southeast Recycling Development Council (SERDC) lists of state economic impact related reports.

State Recycling Focus

Arizona (1996)

REI related California, Florida, Indiana, Nebraska, Ohio, Illinois, Minnesota, Wisconsin and Missouri (2000-2001)

California Integrated Waste Management Board (CIWMB) now CalRecycle, The Economic Impact of Waste Disposal and Diversion in California, 2001. (University of California, Berkeley, IMPLAN)

Connecticut Resources Recovery Authority, The Economic Impact on Connecticut from Recycling Activity, 2012. (Used IMPLAN.)

Illinois DCCA (2002)

Illinois Recycling Coalition and Illinois DCEO, 2010 Recycling Economic Information Study Update for Illinois. (DSM Environmental, whole model)

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Indiana (2001)

Indiana Recycling Coalition, The untapped job potential of Indiana's recycling industry, 2013. (Bowen Center for Public Affairs, Ball State University)

Iowa (1996, 2001)

Iowa Department of Natural Resources (Iowa DNR), Economic Impacts of Recycling in Iowa, 2007. (RW Beck, I/O used)

Massachusetts (2004)

Michigan (2001)

Missouri's Environmental Improvement and Energy Resources Authority (EIERA), Missouri Recycling Economic Information Study MOREIS, 2003. (Institute of Public Policy, Truman School of Public Policy, University of Missouri – Columbia). Updated in 2006.

Missouri Organization of Recyclers (MORA) Recycling in Missouri: Expanding our economy Strengthening our communities Improving our environment A 2013 Progress Report, 2013.

Missouri grant impact ROI reference

Minnesota Office of Environmental Assistance, now Minnesota Pollution Control Agency (MPCA), Minnesota's Recycling Industries: Economic Activity Summary, 2002.

Montana DEQ (2004)

North Carolina (2008)

North Carolina Department of Environment and Natural Resources, Recycling Business Assistance Center (RBAC) Employment Trends in North Carolina's Recycling Industry, 2010.

North Carolina Department of Environment and Natural Resources, Recycling Business Assistance Center (RBAC) Employment Trends in North Carolina's Recycling Industry, 2013

Ohio Department of Natural Resources (Ohio DNR), Ohio Recycling Economic Information Study 2001. (RW Beck, NRC)

Pennsylvania (2007)

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South Carolina Department of Health and Environmental Control and the S.C. Department of Commerce, The Economic Impact of the Recycling Industry in South Carolina, 2006. (College of Charleston, IMPLAN)

Virginia Department of Environmental Quality (VA DEQ), The Economic Benefits of Recycling in Virginia, >2007. (Thomas Jefferson Program in Public Policy At the College of William and Mary)

Washington Survey of Washington State's Recycling Industry (1992 and updates)

Local Government

St. Louis - Jefferson Solid Waste Management District, St. Louis Metropolitan Area Recycling Economic Information Study (SLMAREIS) 2002. (College of Business Administration, University of Missouri - St. Louis and University of Missouri Outreach and Extension)

Seattle/King County

Broader Sustainability or "Green" Focus

State of California Employment Development Department, California's Green Economy, Summary of Survey Results, 2010.

Bureau of Labor Statistics Measuring Green Jobs

Recycling Job Metrics

Type of Operation	Jobs per 10,000 TPY
Product Reuse	
Computer Reuse	296
Textile Reclamation	85
Misc. Durables Reuse	62
Wooden Pallet Repair	28
Recycling-based Manufacturers	25
Paper Mills	18
Glass Product Manufacturers	26
Plastic Product Manufacturers	93
Conventional Materials Recovery Facilities	10
Composting	4
Landfill and Incineration	1

TPY = tons per year Note: Figures are based on interviews with select facilities around the country. Source: Institute for Local Self-Reliance, Washington, DC, 1997.

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<http://www.ilsr.org/recycling-means-business/>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 004		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY SRRPOD US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460		CODE SRRPOD		5. PROJECT NO. (If applicable)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ABT ASSOCIATES INC. Attn: (b)(4) 4550 MONTGOMERY AVENUE SUITE 800 NORTH BETHESDA MD 208143343		(x)		9A. AMENDMENT OF SOLICITATION NO.	
CODE 058595539		FACILITY CODE		9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-10-054 0072	
				10B. DATED (SEE ITEM 13) 05/22/2014	

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14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 058595539

Recycling Economic Impact (REI) Metrics

TOCOR: Kent Foerster Max Expire Date: 08/31/2015

The purpose of this bilateral Modification is to extend the Period of Performance from July 1, 2015 to August 31, 2015. This is a written confirmation of the verbal authorization provided on June 30, 2015. This Period of Performance extension is at no additional cost to the Government. The contractor shall perform work as authorized and at a price not to exceed the price approved in the task order. All other terms and conditions remain unchanged.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Mark Heare	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA Mark Heare (Signature of Contracting Officer)	16C. DATE SIGNED 07/13/2015

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

EP-W-10-054/0072/004

PAGE OF

2

2

NAME OF OFFEROR OR CONTRACTOR

ABT ASSOCIATES INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>LIST OF CHANGES:</p> <p>Reason for Modification : Other Administrative Action</p> <p>Period Of Performance End Date changed from 30-JUN-15 to 31-AUG-15</p> <p>Maximum Potential Expiration Date changed to : 08/31/2015</p> <p>Payment:</p> <p>RTP Finance Center US Environmental Protection Agency RTP-Finance Center Mail Drop D143-02 109 TW Alexander Drive Durham NC 27711</p> <p>Period of Performance: 05/19/2014 to 08/31/2015</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 005		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. PR-OSWER-15-00349	
5. PROJECT NO. (If applicable)		6. ISSUED BY SRRPOD US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ABT ASSOCIATES INC. Attn: (b)(4) 4550 MONTGOMERY AVENUE SUITE 800 NORTH BETHESDA MD 208143343		(x)		9A. AMENDMENT OF SOLICITATION NO.	
CODE 058595539		FACILITY CODE		9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-10-054 0072	
				10B. DATED (SEE ITEM 13) 05/22/2014	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required) Net Increase: \$49,899.00
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. FAR 52.243-3 Changes; FAR 52.232-22 Limitation of Funds
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 058595539

Recycling Economic Impact (REI) Metrics

TOCOR: Kent Foerster Max Expire Date: 02/29/2016

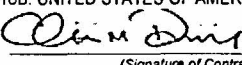
The purpose of this modification is to extend the period of performance through 02/29/2016.

The total estimated price ceiling is hereby increase by \$182,659.36 to the new total amount of \$331,072.38.

This modification also adds incremental funding in the amount of \$49,899.00 to this Task Order to perform the approved work through 02/29/2016. The new total amount of funds obligated to this Task Order is now \$198,312.02. The contractor shall not work beyond this point.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Christie M. Deskiewicz	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 08/31/2015

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-W-10-054/0072/005	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ABT ASSOCIATES INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>All other terms and conditions remain the same.</p> <p>LIST OF CHANGES: Reason for Modification : Change Order Period Of Performance End Date changed from 31-AUG-15 to 29-FEB-16 Total Amount for this Modification: \$182,659.36 New Total Amount for this Award: \$331,072.38 Obligated Amount for this Modification: \$49,899.00 New Total Obligated Amount for this Award: \$198,312.02</p> <p>Maximum Potential Expiration Date changed to : 02/29/2016</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 15-16-B-31M-302DA1-2585-1531MRP016-001 Beginning Fiscal Year 15 Ending Fiscal Year 16 Fund (Appropriation) B Budget Organization 31M Program (PRC) 302DA1 Budget (BOC) 2585 Job # (Site/Project) Cost Organization DCN-LineID 1531MRP016-001 Amount: \$49,899.00 Subject To Funding: N</p> <p>Delivery Location Code: HPOD RRB HPOD RRB US Environmental Protection Agency USEPA Ronald Reagan Building (RRB) 1300 Pennsylvania Avenue NW Washington dc 20004 USA</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 FOB: Destination Period of Performance: 05/19/2014 to 02/29/2016</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 006		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY SRRPOD US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460		CODE SRRPOD		5. PROJECT NO. (If applicable)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ABT ASSOCIATES INC. Attn: (b)(4) 4550 MONTGOMERY AVENUE SUITE 800 NORTH BETHESDA MD 208143343		(x)		9A. AMENDMENT OF SOLICITATION NO.	
CODE 058595539		FACILITY CODE		9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-10-054 0072	
				10B. DATED (SEE ITEM 13) 05/22/2014	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 058595539

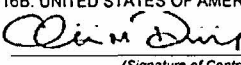
Recycling Economic Impact (REI) Metrics

TOCOR: Kent Foerster Max Expire Date: 02/29/2016

The purpose of this modification is to correct the total price ceiling for Task Order 0072. Modification 5 of this Task Order mistakenly approved the revised price proposal at \$182,659.36, bringing the total price ceiling to \$331,072.38. This modification 6 now corrects Modification 5's error and approves the contractor's price proposal dated August 27, 2015 for \$331,072.38. The new total estimated price ceiling is now \$479,485.40. The total funds ceiling remains at \$198,313.02. The contractor shall not work beyond this point. All other terms and conditions remain the same.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Christie M. Deskiewicz	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 09/08/2015

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-W-10-054/0072/006	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR

ABT ASSOCIATES INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>LIST OF CHANGES:</p> <p>Reason for Modification : Other Administrative Action</p> <p>Total Amount for this Modification: \$148,413.02</p> <p>New Total Amount for this Task Order: \$479,485.40</p> <p>Total Amount changed from \$331,072.38 to \$479,485.40</p> <p>Delivery Location Code: HPOD RRB</p> <p>HPOD RRB</p> <p>US Environmental Protection Agency</p> <p>USEPA Ronald Reagan Building (RRB)</p> <p>1300 Pennsylvania Avenue NW</p> <p>Washington dc 20004 USA</p> <p>Payment:</p> <p>RTP Finance Center</p> <p>US Environmental Protection Agency</p> <p>RTP-Finance Center (AA216-01)</p> <p>109 TW Alexander Drive</p> <p>www2.epa.gov/financial/contracts</p> <p>Durham NC 27711</p> <p>FOB: Destination</p> <p>Period of Performance: 05/19/2014 to 02/29/2016</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 007		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. PR-OSWER-15-00588	
5. PROJECT NO. (If applicable)		6. ISSUED BY SRRPOD		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ABT ASSOCIATES INC. Attn: (b)(4) 4550 MONTGOMERY AVENUE SUITE 800 NORTH BETHESDA MD 208143343		(x)		9A. AMENDMENT OF SOLICITATION NO.	
CODE 058595539		FACILITY CODE		9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-10-054 0072	
				10B. DATED (SEE ITEM 13) 05/22/2014	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required) Net Increase: \$75,970.95
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. FAR 52.243-3 Changes; FAR 52.232-22 Limitation of Funds
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 058595539

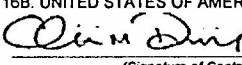
Recycling Economic Impact (REI) Metrics

TOCOR: Kent Foerster Max Expire Date: 02/29/2016

The purpose of this modification is to approve the contractor's Technical and Price proposal dated September 14, 2015, which removes tasks 6A and 6B from the Statement of Work. This modification brings the total price ceiling down by \$205,202.43 to a new total estimated price of \$274,282.97 for this Task Order.

This modification also adds incremental funding in the amount of \$75,970.95. The new total amount of funding obligated to this Task Order is now \$274,282.97. This Task Order is fully funded. The contractor shall not work beyond this point. All other terms and conditions Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Christie M. Deskiewicz	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 10/27/2015

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

EP-W-10-054/0072/007

PAGE OF

2

2

NAME OF OFFEROR OR CONTRACTOR

ABT ASSOCIATES INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>remain the same.</p> <p>LIST OF CHANGES: Reason for Modification : Change Order Total Amount for this Modification: -\$205,202.43 New Total Price Ceiling for this Task Order changed from \$479,485.40 to \$274,282.97 Obligated Amount for this Modification: \$75,970.95 Incremental Funded Amount changed: from \$198,312.02 to \$274,282.97</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 15-16-B-31M-302DA1-2585-1531MRP025-001 Beginning Fiscal Year 15 Ending Fiscal Year 16 Fund (Appropriation) B Budget Organization 31M Program (PRC) 302DA1 Budget (BOC) 2585 Job # (Site/Project) Cost Organization DCN-LineID 1531MRP025-001 Amount: \$75,970.95 Subject To Funding: N</p> <p>Delivery Location Code: HPOD RRB HPOD RRB US Environmental Protection Agency USEPA Ronald Reagan Building (RRB) 1300 Pennsylvania Avenue NW Washington dc 20004 USA</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>FOB: Destination Period of Performance: 05/19/2014 to 02/29/2016</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 008		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY SRRPOD		7. ADMINISTERED BY (If other than Item 6)	
SRRPOD US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460		8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ABT ASSOCIATES INC. Attn: (b)(4) 4550 MONTGOMERY AVENUE SUITE 800 NORTH BETHESDA MD 208143343		9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-10-054 0072 10B. DATED (SEE ITEM 13) 05/22/2014	
CODE 058595539		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. FAR 52.243-3 Changes; B.3 Period of the Contract
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not. ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 058595539

Recycling Economic Impact (REI) Metrics

TOCOR: Kent Foerster Max Expire Date: 04/29/2016

The purpose of this modification is to extend the period of performance for this Task Order to 4/29/2016 at no cost to continue on-going deliverables. All other terms and conditions remain the same.

LIST OF CHANGES:

Reason for Modification : Change Order

Period Of Performance End Date changed from 29-FEB-16 to 29-APR-16

Maximum Potential Expiration Date changed to : 04/29/2016

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Mark Heare	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA Mark Heare (Signature of Contracting Officer)	16C. DATE SIGNED 10/26/2016

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	EP-W-10-054/0072/008	2	2

NAME OF OFFEROR OR CONTRACTOR
ABT ASSOCIATES INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center Mail Drop D143-02 109 TW Alexander Drive Durham NC 27711 Period of Performance: 05/19/2014 to 04/29/2016				